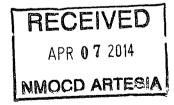


LINN ENERGY

2130 W. Bender Blvd. Hobbs, NM 88241 Phone 575.738.1739

HE West B #2 Battery/West B #88 (2RP-1189)

Termination Request



API No. 3001528537

Release Date: June 7th, 2012

Unit Letter D, Section 9, Township 17S, Range 31E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

April 4th, 2014

Mike Bratcher New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 2 811 S. First St. Artesia, NM 88210

> RE: Termination Request Linn Energy – HE West B #2 Battery/West B #88 (2RP-1189) UL/D sec. 9 T17S R31E API No. 3001528537 NU12136TG

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 6.8 miles west of Maljamar, New Mexico at UL/D sec. 9 T17S R31E. This site is in an area of no known groundwater.

On June 7th, 2012, a valve failed in the battery releasing 8 barrels of oil and 2 barrels of produced water over 17,545 sq ft of battery and pasture land. None of this material was recovered. On June 13th, 2012, NMOCD and BLM were notified of the release. An initial C-141 was submitted to both agencies and NMOCD approved the C-141 on June 21st, 2012 (Appendix A).

Two other environmental companies worked this site previously to RECS taking over remediation activities. When RECS obtained the site, the battery had already been excavated to 1.5 - 3 ft bgs and a request to backfill the site had been approved by BLM on July 26th, 2013. As part of permission to backfill, BLM had a stipulation that Sample Point 1 needed to be delineated to find closure levels. The site was backfilled and contoured to the surrounding location.

RECS took over the project on August 27th, 2013. A vertical was attempted at Point 1 on September 17th, 2013; however, installation was aborted when a fiberglass line was found below Point 1. On September 20th, 2013, RECS met with NMOCD and NMOCD stated that RECS needed to assess the release outside the bermed battery area. On September 25th, 2013, RECS met with BLM and BLM stated that the work was completed inside the battery and RECS needed to assess the release outside the battery. Both agencies required RECS to submit a CAP to remediate this area.

RECS sampled that area outside the battery on beginning on October 8th, 2013. Samples were taken from the surface at seven points within the release area outside the bermed battery and one sample, Point 7, was taken as background sample (Figure 1). The samples were field tested for chlorides and organic vapors and the samples were taken to a commercial laboratory for analysis (Appendix B). All the samples returned chloride values below 1,000 mg/kg, GRO values of non-detect and DRO values below regulatory standards, except for the background sample at Point 7, which returned a DRO value of 5,890 mg/kg.

A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on December 5th, 2013. BLM approved the CAP on December 6th, 2013 and NMOCD approved the CAP on February 11th, 2014. Based on the laboratory analysis, all sampling outside the bermed battery was below regulatory standards. Therefore, the CAP stated that this area would have soil amendments added as necessary and then the area would be seeded with a blend of native vegetation. Vegetation provides an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

As a stipulation for approval of the CAP, NMOCD requested that since this release encompasses another release at the site (Appendix A), a final C-141 for the 2RP-950 be enclosed with the final documentation for this site (Appendix D).

RECS personnel were on site on February 24th, 2014 to conduct the CAP work. Soil amendments were added to the site and the site was seeded with BLM mix #2 and #4. The remainder of contamination from the release will be addressed at site abandonment. Photo documentation of all activities at the site can be found in Appendix C.

Given that the CAP activities have been completed as approved by NMOCD and BLM, Linn respectfully requests 'remediation termination' and site closure. Final C-141s will be found in Appendix D.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

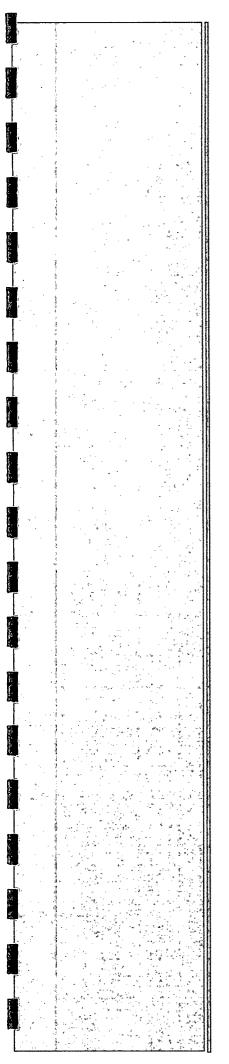
Sincerely,

JC.W-

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

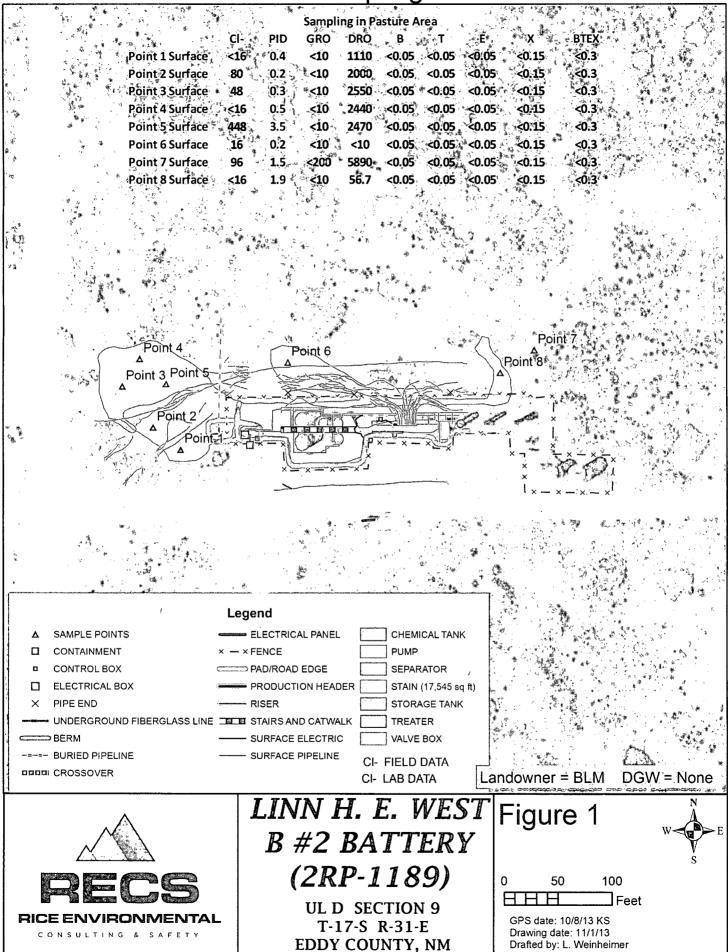
Figure 1 – Initial Sampling Data Appendix A – Initial C-141 Appendix B – Laboratory Analyses Appendix C – Photo Documentation Appendix D – Final C-141s



Figures

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

Initial Sampling Data



Appendix A Initial C-141

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967 <u>District 1</u> 1625. N. French Dr., Hobbis, NM 88240 <u>District III</u> 1301 W. Grand Ayentie, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 SJST Bran<u>ci</u>s Dr., Santa Fe, NM 87505-

State of New Mexico. Energy Minerals and Natural Resources.

Oil Conservation Division

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Eorin C-141 Revised October 10, 2003

NMOGD ARTES A epriate District Office in according of with 19,15.29 NMAC

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-00	filler 1.25	ar 4, 9.4.9	1.07.5	10.1	

	ion and Corrective Act	•••
N/MW 1217356345	OPERATOR	🔊 Initial Report. 🧐 Final Repo
Name of Company: Linn Operating	Contact: Joe Hernandez Telephone No.: 575-738-1739	2
Facility Name: HE/West B // 2 Battery/ West B #88	["Facility Type! Battery	
Surface: Owner: Federal Mineral Own	ari Faderäl	1.ARI'No.: 3001528537
· · · · ·	ION OF RELEASE	Turil House in the
UnitLetter Section Township Range Feet from the N		asi/West Line . County
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	273 Longitude: -103-87827	-
	REOFRELEASE	
Experiol Release? On 73Próduleed, Water .	Volume of Release: 8:1/2	Volume Recovered to 1/05
Source of Release: Malve	Date and Hour of Occurrence: 06/07/2012/8:30ani	Date and Hour of Discovery: 06/07/2012: Sam
Was-Inniediule Nonce Gived?	HYES, To Whom? fell M. Bratcher - NM QCD: Terry	Gregston-BLM
By Whom? Joe:Hernandez-	Date and Hour 06/13/2012.	
Was a Walercourse Reached?	If YES. Molume Impacting the	Watercourse;
Describe Afrea Affected and Gleanup ActionAfaken.* 2 Front headers If erry BLM to start; cleanup.	yest. ได้พลาป-ลึกปะลาดินทป (production tan	kš. Delmention/started bý Etcebr Oktik bý
Thereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain refer public lically or the environment. The acceptance of a C+141 report should their operators have failed to adequately investigate and remu or the environment, the addition, NMQCD acceptance of a C+141 report federal static or focal laws and/or regulations.	se non fiéningns und perform correctiv y the NMOCD marked as "Final Rep drare contantification that pose a thread ort does not relieve the operator of res	e actions for releases which may endanger nd does not release the operator of hability. To ground water, surface water, human health ponsibility forgeomphanee with any other.
	OILCONSE	RVATION DIVISION
Stenarures and an	Approved by District Supervises	mad By Ally Demains
Printeđ Namcy loć Hernandez.		UIZ
E_mail:/Addfess:Thefnandcz@hninenergy.com Date:.00/21/2012, (Phone:.575-942-9492,	· Conduions of Approval	ર્સાટમાર્લ્વા 🗍
Attach Additional Sheetsilf Necessary Guidelin PROPOS	ediation per OCD Rules & es SUBMIT REMEDIATION AL NOT LATER THAN 211/1/2	2 R.P-1189

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625 Nutrienen, Dr.; 190065 (SM 88240) District II 301 W Grand Ävenue, Angsia, NM 88210 District III OOM Da Duccies Resel, Archite MM 87010	State of New Mexico Amerals and Natural Resources Conservation Division NMOCD ARTESIA Recordance with 19:15-29 NMAG
$\frac{1}{122}$	20 South St. Françis Dr. Santa Pe, NM 87505
Release Notif	lication and Corrective Action
nMUB1131135151	OPERATOR 🖄 Initial Report i 🗌 Hinal Repo
Name of Company: Linn Operating	24 Cóntaçi: Joe Hernandez Telephone ₃ Noi: 575-738-1739
Facility Name: H.E. West B # 2 Btry-West B 88.	-Facility Type: Battery
Surface Owner: BEM Mineral	1 Owner: BI:MAPI_No.: 3001528537
	CATION OF RELEASE e North/South Line Free from the East/West Line County N 1310 AV Edity
Latitode: 32	* \$1' 16/4" Longitude: -103° 52:47.3"
	ATURE OF RELEASE
Type of Release: Land Orl & P.W. Source of Release: Oil & Water No. + Listed	
Wills immediate woulde Given?	Required HES, Id. Whom No Alot fiction
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Describe Area Affecied and Gleanup Action Taken? (Mac true	çks
ຼregulations and operators are required to report and/or file cerial public health or the environment. "The acceptance of a C214 hr Should their operations have failed to adequately, investigate an	mplete to the best of my knowledge and understand that pursuant to NMOCD rules and a in release notifications and perform corrective actions for releases which may endanger report by the NMOCD marked as "Email Report" does not release which may endanger d remediate contamination that pose a threat to ground water, sufface water, human health 4) report does not relieve the operator of responsibility for compliance with any other
et i prive	OIL CONSERVATION DIVISION
Signatures Condition And States	Approved by District Supervisor
I.T.file: Production Forenian	Approval Dale 0.7 2011 Expiration Date:
"IE-mail: Address: jherilandez@linnehergy.com Date: 1/01/2011	Condutions of Approval:
Allifeh Additional Sheets If Necessary	Remediation per OCD Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:

<u>.</u>___

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Appendix B Laboratory Analyses

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967



October 11, 2013

JACOB KAMPLAIN RICE ENVIRONMENTAL CONSULTING & SAFETY LLC 419 W. CAIN HOBBS, NM 88240

RE: H. E. WEST B #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/09/13 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ SURFACE (H302435-01)

BTEX 8021B	mg,	kg	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07	
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73	
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	· 100	2.00	4.36	
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75	
Total BTEX	< 0.300	0.300	10/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/09/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS			. <u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/10/2013	ND	200	100	200	0.683	
DRO >C10-C28	1110	10.0	10/10/2013	ND	194	97.0	200	2.22	
Surrogate: 1-Chlorooctane	95.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	153	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ SURFACE (H302435-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07	
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73	
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36	
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75	
Total BTEX	<0.300	0.300	10/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE 99.7 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/09/2013	ND	432	108	400	3.77		
TPH 8015M	mg/kg		Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/10/2013	ND	200	100	200	0.683		
DRO >C10-C28	2000	10.0	10/10/2013	ND	194	97.0	200	2.22	•	
Surrogate: 1-Chlorooctane	114	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	180	% 63.6-15	4							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ SURFACE (H302435-03)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07	
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73	
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36	
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75	
Total BTEX	<0.300	0.300	10/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.1 % 89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/09/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/10/2013	ND	200	100	200	0.683	
DRO >C10-C28	2550	10.0	10/10/2013	ND	194	97.0	200	2.22	
Surrogate: 1-Chlorooctane	103	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	191	% 63.6-15	4						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ SURFACE (H302435-04)

BTEX 8021B	mg,	mg/kg Analyzed By: MS						. <u>.</u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07	
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73	
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36	
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75	
Total BTEX	<0.300	0.300	10/10/2013	ND					

.

Surrogate: 4-Bromofluorobenzene (PIL 98.2 % 89.4-126

190 %

63.6-154

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/09/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/10/2013	ND	188	94.1	200	0.921	
DRO >C10-C28	2440	10.0	10/10/2013	ND	187	93.4	200	0.907	

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 5 @ SURFACE (H302435-05)

BTEX 8021B mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 10/10/2013 ND 1.97 98.6 2.00 4.07 Toluene* < 0.050 0.050 10/10/2013 ND 1.99 99.3 2.00 4.73 10/10/2013 Ethylbenzene* <0.050 0.050 ND 2.01 100 2.00 4.36 Total Xylenes* < 0.150 0.150 10/10/2013 ND 5.88 98.1 6.00 4.75 Total BTEX < 0.300 0.300 10/10/2013 ND

Surrogate: 4-Bromofluorobenzene (PIE 99.9 % 89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/09/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/10/2013	ND	188	94.1	200	0.921	
		10.0	10/10/2013	ND	187	93.4	200	0.907	

Surrogate: 1-Chlorooctadecane 203 % 63.6-154

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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 6 @ SURFACE (H302435-06)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07	
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73	
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36	
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75	
Total BTEX	<0.300	0.300	10/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 97.1% 89.4-126

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2013	ND	416	104	400	3.77	
ТРН 8015М	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/10/2013	ND	188	94.1	200	0.921	
DRO >C10-C28	<10.0	10.0	10/10/2013	ND	187	93,4	200	0.907	

Surrogate: 1-Chlorooctadecane 71.4 % 63.6-154

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 7 @ SURFACE (H302435-07)

BTEX 8021B	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/10/2013	ND	1.97	98.6	2.00	4.07	
Toluene*	<0.200	0.200	10/10/2013	ND	1.99	99.3	2.00	4.73	
Ethylbenzene*	<0.200	0.200	10/10/2013	ND	2.01	100	2.00	4.36	
Total Xylenes*	<0.600	0.600	10/10/2013	ND	5.88	98.1	6.00	4.75	
Total BTEX	<1.20	1.20	10/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 100 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg '	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/09/2013	ND	416	104	400	3.77		
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	10/10/2013	ND	188	94.1	200	0.921		
DRO >C10-C28	5890	200	10/10/2013	ND	187	93.4	200	0.907		
Surrogate: 1-Chlorooctane	77.0	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	322	% 63.6-15	4							

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Linn energy							BI	LL TO					<u> </u>	ANAL	_YSIS	RE	QUE	ST		
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service. In no event shall Cardinal be liable for incidental or consequental samples, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its substitiaries, affiliates or successors arising out of or related to the performance of say to say figure by cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

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Kyle Schnaidt	Tig: 25		Fax Result: Image: Yes Image: Yes REMARKS:
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	Time:		Knorman@rice-ecs.com
Delivered By: (Circle One)		Comple Containent Contage La Stri	Kjones@riceswd.com; jkamplain@rice-ecs.com
Sampler - UPS - Bus - Other:	-	0 Cool Intact Intfals) 0 0 Yes Intfals) 0 No No	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



October 31, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/25/13 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (57.5) 397-1471

Received:	10/25/2013	Sampling Date:	10/25/2013
Reported:	10/31/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 8 @ SURFACE (H302607-01)

BTEX 80218 mg/kg Analyzed By: MS Qualifier Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Benzene* < 0.050 0.050 10/29/2013 ND 2.02 101 2.00 0.429 Toluene* < 0.050 0.050 10/29/2013 ND 2.00 100 2.00 0.174 Ethylbenzene* < 0.050 0.050 10/29/2013 ND 2.00 99.8 2.00 0.532 Total Xylenes* 10/29/2013 ND 5.85 97.5 6.00 0.0606 < 0.150 0.150 Total BTEX ND < 0.300 0.300 10/29/2013

Surrogate: 4-Bromofluorobenzene (PIL 103 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2013	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	ND	210	105	200	1.98	
DRO >C10-C28	56.7	10.0	10/29/2013	ND	202	101	200	1.03	
Surrogate: 1-Chlorooctane	99.2	% 65.2-14	0.						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6° C Samples reported on an as received basis (wet) unless otherwise noted on report

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Company Name	RECS					•						311	1.10						ANA	_YSIS	RE	QUE	ST			
Project Manager	: RECS :: Jacob Ka	molary						•	P.C). #:			•											Γ		
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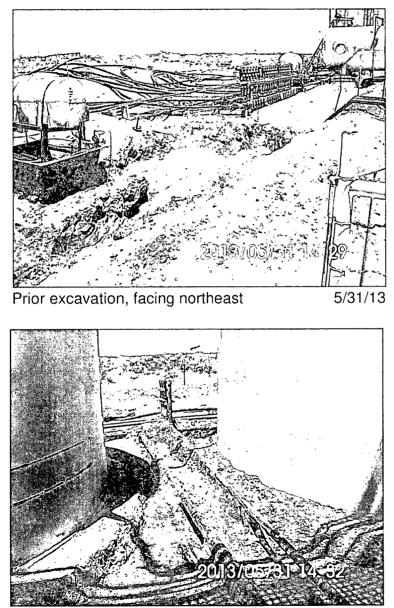
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Appendix C Photo Documentation

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

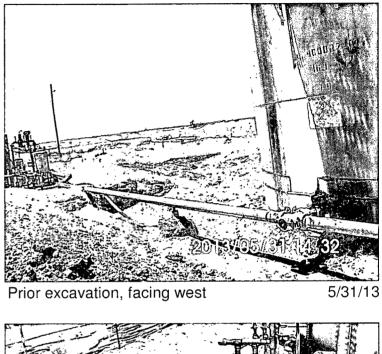
Linn Energy H.E. West B #2 Battery/West B #88

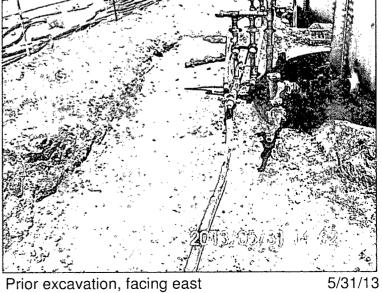
Unit Letter D, Section 9, T17S R31E



Prior excavation, facing north

5/31/13

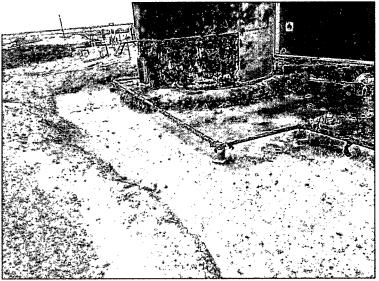






Excavating site, facing northwest

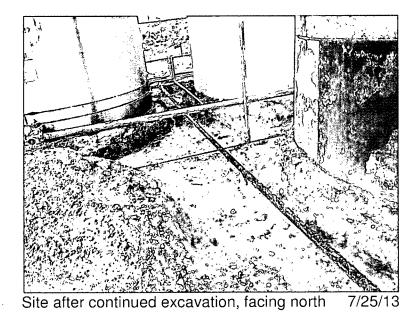
6/4/13

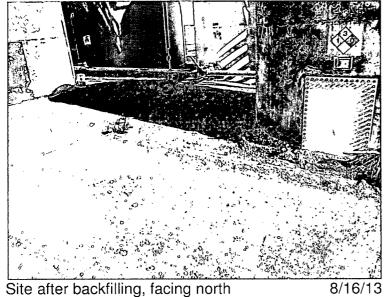


Site after continued excavation, facing west 7/25/13



Site after continued excavation, facing northwest 7/25/13

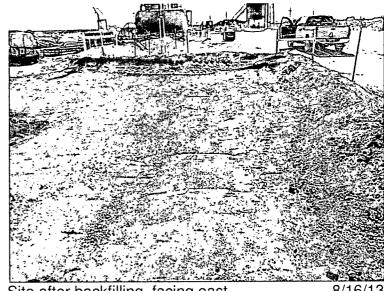




Site after backfilling, facing north

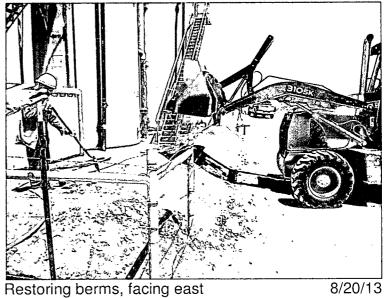
Site after backfilling, facing west

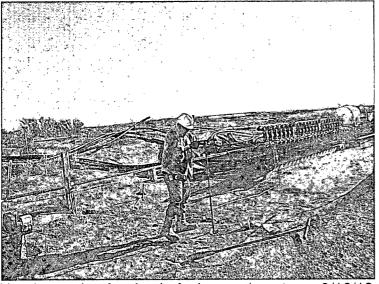
8/16/13



Site after backfilling, facing east

8/16/13



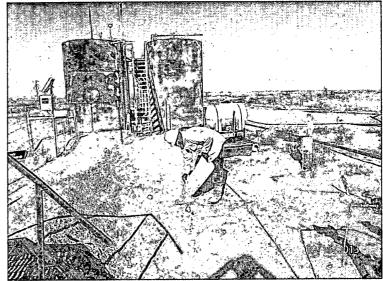


Hand auguring for depth, facing northeast 9/16/13

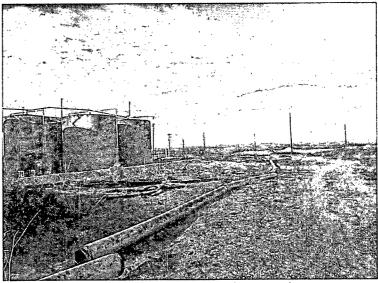


Fiberglass line, facing west

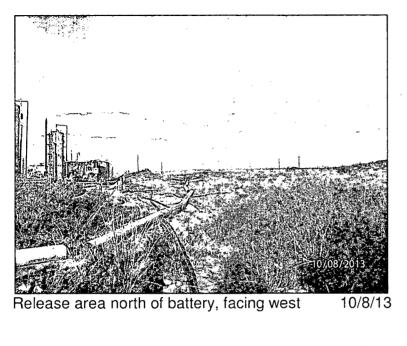
9/17/13

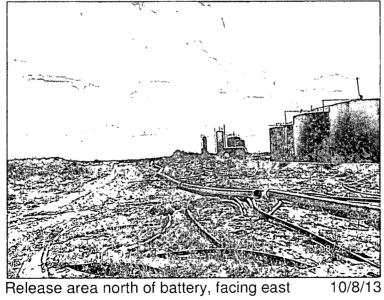


Plugging augur point in total with bentonite, facing west 9/16/13

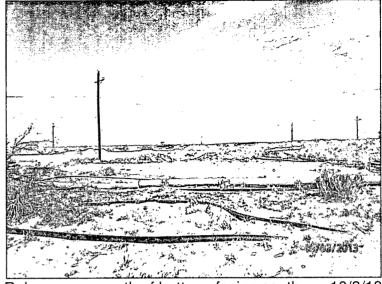


Release area north of battery, facing southwest

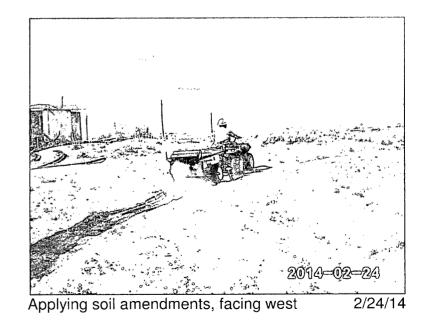


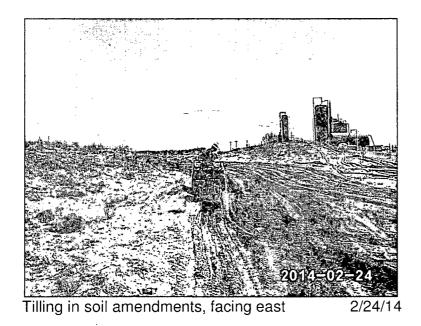


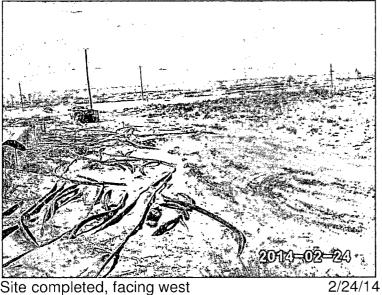
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Release area north of battery, facing south 10/8/13

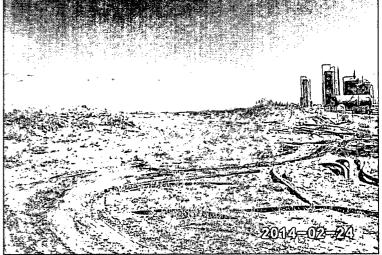






Site completed, facing west

Seeding site, facing west 2/24/14



Site completed, facing east

2/24/14

Appendix D Final C-141s

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised August 8, 2011

Release Notification and Corrective Action

	OPERATOR	Initial Report	S Final Report
Name of Company Linn Operating	Contact · Brian Wall		
Address 2130 W. Bender, Hobbs, NM 88240	Telephone No. (806) 367-0645		
Facility Name HE West B # 2 Battery / West B #88	Facility Type Battery		

Surface Owner Federal	Mineral Owner Federal	API No. 3001528537

	LOCATION OF RELEASE												
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County					
D	09	175	31E	1309	North	1310	West	Eddy					

Latitude 32.85273 Longitude -103.87827

NATURE OF RELEASE

Type of Release Oil / Produced Water	Volume of Release 8/2 Volume Recovered 0/0						
Source of Release Valve	Date and Hour of Occurrence	Date and Hour of Discovery 06/07/2012					
	06/07/2012 8:30am	9am					
Was Immediate Notice Given?	If YES, To Whom?						
🗌 Yes 🛛 No 🗋 Not Require	🗋 Yes 🛛 No 🗋 Not Required M. Bratcher – NM OCD Terry Gregston - BLM						
By Whom? Joe Hernandez	Date and Hour 06/13/2012	Date and Hour 06/13/2012					
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.							
🗌 Yes 🖾 No							
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.* 2" T on the production header was buried and failed releasing oil and produced water.							
Describe Area Affected and Cleanup Action Taken.* The release affect							
this site previously to RECS taking over remediation activities. When REC	S obtained the site, the battery had already	y been excavated to $1.5 - 3$ ft bgs and a request					
to backfill the site had been approved by BLM on July 26 th , 2013. As part of permission to backfill, BLM had a stipulation that Sample Point I needed to be							
delineated to find closure levels. The site was backfilled and contoured to t	he surrounding location. RECS took over	the project on August 27 th , 2013. A vertical					
was attempted at Point 1 on September 17th, 2013; however, installation wa							
RECS met with NMOCD and NMOCD stated that RECS needed to assess the release outside the bermed battery area. On September 25th, 2013, RECS met with							
BLM and BLM stated that the work was completed inside the battery and R	ECS needed to assess the release outside t	the battery. RECS sampled that area outside					
the battery on beginning on October 8 th , 2013. Samples were taken from the							
sample, Point 7, was taken as background sample. The samples were field tested for chlorides and organic vapors and the samples were taken to a commercial							
laboratory for analysis. All the samples returned chloride values below 1,000 mg/kg, GRO values of non-detect and DRO values below regulatory standards, except							
for the background sample at Point 7, which returned a DRO value of 5,890 mg/kg. A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on December 5 th , 2013. BLM approved the CAP on December 6 th , 2013 and NMOCD approved the CAP on February 11 th , 2014. As a stipulation for approval of the							
CAP, NMOCD requested that since this release encompasses another release at the site, a final C-141 for the 2RP-950 be enclosed with the final documentation for							
this site. RECS personnel were on site on February 24 th , 2014 to conduct th	e CAP work. Soil amendments were add	ed to the site and the site was seeded with					
BLM mix #2 and #4. The remainder of the contamination from the release							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and							
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger							
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability							
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health							
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other							
federal, state, or local laws and/or regulations.							
	OIL CONSER	VATION DIVISION					
Simon Trad Rhull	• • • • • • • • • • • • • • • • • • •						
Signature: Fred B Wall	4						
ed Name: Brian Wall Approved by Environmental Specialist:							
Title: Construction Foreman II	Approval Date:	Expiration Date:					
E-mail Address: Bwall@linnenergy.com	Conditions of Approval:	Attached					

Date: 4-4-14 Phone: (806) 367-0645 * Attach Additional Sheets If Necessary

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 5. 50. 1140			, 	<u> </u>	inta Fe	e, NM 875	05	<u> </u>		
Release Notification and Corrective Action										
						OPERA	ГOR	🗌 Initi	al Report	🛛 Final Report
Name of Co	Name of Company Linn Operating					Contact Br	rian Wall			
Address 2	130 W. Be	ender, Hobbs	, NM 882	240	,	Telephone N	No. (806) 367-	0645		
						Facility Type Battery				
Surface Ow	ner BLN	1		Mineral C)wner	BLM API No. 3001528537				
LOCATION OF RELEASE										
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County	
D	9	175	31E	1309		N	1310		Eddy	
<u> </u>	•		Lat	itude_32° 51' 1	6.4"	Longitude	e <u>103° 5</u> 2' 47.3	3"		
NATURE OF RELEASE										
Type of Rele	ase Oil and	d Produced W	ater		UNE		Release 110	Volume	Recovered	98
Source of Re							Hour of Occurrence Date and Hour of Discovery			
		<u>.</u>				10/28/2011 11:25 am				
Was Immedi	ate Notice		Yes 🗵	🕽 No 🔲 Not R	equired	If YES, To	whom?			
By Whom?						Date and Hour				
Was a Water	course Rea	ched?				If YES, Volume Impacting the Watercourse. °				
🗌 Yes 🛛 No										
If a Watercou	urse was In	pacted, Descr	ibe Fully.	*		<u> </u>			<u></u>	
Describe Ca	use of Prob	lam and Ramo	dial Actio	n Taken.* Bad v						
						nental compa	nies worked this si	te previously to RE	CS taking ove	er remediation
activities. WI	hen RECS o	btained the site	, the batte	ry had already beer	n excavat	ted to $1.5 - 31$	ft bgs and a reques	t to backfill the site	had been app	proved by BLM on
July 26 th , 201	3. As part o	of permission to	backfill, l	BLM had a stipulat	ion that a	Sample Point	1 needed to be deli	ineated to find closu	ire levels. Th	te site was backfilled
and contoured	d to the surre	ounding location	on. RECS	took over the proje	ct on Au	gust 27", 2011	3. A vertical was a suppor 20 th 2013.	attempted at Point 1 RECS met with NM	on Septembe	er 17 ¹¹¹ , 2013;
RECS needed	to assess th	te release outsi	de the berr	ned battery area.	n Septer	mber 25^{th} . 201	3. RECS met with	BLM and BLM sta	ted that the w	vork was completed
								the battery on begin		
Samples were	e taken from	the surface at	seven poin	ts within the releas	e area oi	itside the bern	ned battery and on	e sample, Point 7, w	as taken as b	ackground sample.
								poratory for analysi		
chloride values below 1,000 mg/kg, GRO values of non-detect and DRO values below regulatory standards, except for the background sample at Point 7, which returned a DRO value of 5,890 mg/kg. A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on December 5 th , 2013. BLM approved the CAP on										
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cncompasses another release at the site, a final C-141 for the 2RP-950 be enclosed with the final documentation for this site. RECS personnel were on site on										
February 24 th , 2014 to conduct the CAP work. Soil amendments were added to the site and the site was seeded with BLM mix #2 and #4. The remainder of contamination from the release will be addressed at site abandonment.										
						he best of my	knowledge and	inderstand that nur	euant to NM	IOCD rules and
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger										
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should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health										
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.										
federal, state	, or local la	ws and/or reg	ulations.					OF DUATION		
	- 1-						<u>OIL CON</u>	SERVATION		
Signature:	trea B	Wall								

 Printed Name:
 Brian Wall
 Approved by Environmental Specialist:

 Title:
 Construction Foreman II
 Approval Date:
 Expiration Date:

 E-mail Address:
 Bwall@linnenergy.com
 Conditions of Approval:
 Attached []

 Date:
 4-4-14
 Phone: (806) 367-0645
 Attached []

* Attach Additional Sheets If Necessary

L.

Patterson, Heather, EMNRD

From:	Lara Weinheimer <lweinheimer@rice-ecs.com></lweinheimer@rice-ecs.com>
Sent:	Friday, April 11, 2014 12:32 PM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	'Hack Conder'; 'Jacob Kamplain'
Subject:	FW: Linn H.E. West B #2 Battery - West B #88 (2RP-1189) Termination Request Approval from BLM

From: Burton, Michael [mailto:mburton@blm.gov]
Sent: Tuesday, April 08, 2014 9:18 PM
To: Lara Weinheimer
Subject: Re: Linn H.E. West B #2 Battery - West B #88 (2RP-1189) Termination Request

Lara, This Termination request is approved. Thanks

Mike Burton BLM-CFO Environmental Protection Specialist 575-234-2226 office 575-361-3574 cell mburton@blm.gov

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On Fri, Apr 4, 2014 at 11:27 AM, Lara Weinheimer <<u>lweinheimer@rice-ecs.com</u>> wrote:

NU12136TG

Mike, attached is the Linn H.E. West B #2 Battery/ West B #88 (2RP-1189) Termination Request. If you have any questions, please let us know. Otherwise we await your approval.

Thanks!

Lara Weinheimer

Rice Environmental Consulting & Safety

Project Scientist

419 West Cain

Hobbs, NM 88240

(575) 441-0431

